

# WATER QUALITY MEMORANDUM

## Utah Coal Regulatory Program

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December 10, 2009

TO: Internal File

THRU: James D. Smith, Permit Supervisor *JS* 12/14/09

FROM: Dave Darby, Senior Environmental Scientist *DD*

RE: 2007 Fourth Quarter Water Monitoring, Canyon Fuel Company, LLC, SUFCO Mine, C/041/0002, WQ07-4, Task ID #3207

The SUFCO Mine is in its operational phase. It uses predominately longwall mining to extract coal. Current operations are in the Quitcupah and Muddy Tracts. Water monitoring requirements can be found in Section 7.3.1.2 of the MRP, especially Tables 7-2, 7-3, 7-4, 7-5, and 7-5A. Page 7-48 contains the important statement that (non Box-Canyon, non-UPDES) "monitoring sites are sampled three times per year," meaning the second, third, and fourth quarters. This report is based on data submitted to the DOGM Water Quality Database.

1. Was data submitted for all of the MRP required sites? YES ☒ NO ☐

### ***Springs***

*The MRP requires the Permittee to monitor 25 springs, Table 7-2, during the fourth quarter. Some require full laboratory analysis according to Table 7-4, while others simply require field measurements.*

The Permittee submitted all required samples for the spring sites.

### ***Streams***

*The MRP requires the Permittee to monitor 20, Table 7-2, streams during the fourth quarter.*

The Permittee submitted all required samples for the stream sites. One additional sample USFS-110 is listed in the database. This sample area represents the Upper Main Fork of Box Canyon Creek. This monitoring point is not listed in the MRP but data is provided by the operator on a voluntary basis.

### **Wells**

*The MRP requires the Permittee to monitor water levels for 4 wells during the fourth quarter.*

The Permittee submitted all required samples for the wells. Monitoring data for four additional wells associated with the waste rock disposal site are listed in the database from wells WRDS-B3, WRDS-B5, WRDS-B6, WRDS-B8, WRDS-B9. These wells are also not listed in the MRP.

### **UPDES**

*The UPDES Permit/MRP require bi-weekly monitoring of 3 outfalls: 001, mine water discharge to Spring Canyon; 002, sedimentation pond discharge to Spring Canyon; and 003, the mine water discharge to the North Fork of Quitchupah Creek.*

The Permittee submitted all required samples for the UPDES sites. Outfall 001 reported no flow this quarter. Flows were reported at Outfall 002 in East Spring Canyon, sedimentation pond, that ranged from 2.19 gpm to 34.2 gpm. Water quality monitoring was conducted and later reported to the database. Minewater discharge at the North Fork of Quitchupah Creek was reported during the quarter. The flow ranged between 2040 gpm to 383889 gpm. Discharged water was monitored and results reported to the database.

2. Were all required parameters reported for each site? YES ☒ NO ☐
3. Were any irregularities found in the data? YES ☐ NO ☒
4. On what date does the MRP require a five-year re-sampling of baseline water data.

There is no commitment in the MRP to resample for baseline parameters.

5. Based on your review, what further actions, if any, do you recommend?

None.